

5 I claim:

1. A recloseable bag having front and rear faces, comprising:
a bag, and
a bendable shape-retaining flat T-shaped spine bonded to a face of said bag.

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2. A recloseable bag according to claim 1, wherein said T-shaped spine is bonded to said bag using conventional heat sealing technology or adhesives.

3. A recloseable bag according to claim 2, wherein said bag is for storing food articles.

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4. A recloseable bag according to claim 3, wherein said bag is folded and formed by a form, fill and seal (FFS) machine.

5. A recloseable bag according to claim 4, wherein said bag is folded and formed by said
20 FFS machine with a top seam, a bottom seam and a center rear seam.

5 6. A recloseable bag according to claim 5, wherein said T-shaped spine is positioned with
the horizontal axis of the T adjacent the top seam and the vertical axis of the T pointing towards
the bottom seam.

7. A recloseable bag according to claim 6, wherein said seams are heat seams.

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8. The recloseable bag according to claim 2, wherein said T-shaped spine is formed of a
bendable shape-retaining plastic polymer material.

9. The recloseable bag according to claim 2, wherein said T-shaped spine is formed of
15 resilient plastic having a bendable shape-retaining strand embedded centrally therein.

10. The recloseable bag according to claim 6, wherein said bag is further comprised of
two of said spines bonded to the rear face of said bag, each of said two spines positioned parallel
said center rear seam.

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11. A machine for manufacturing a recloseable bag with flat spines; said machine
comprised of
at least two feeder spools;

5 a tension roller;

 an alignment spool;

 a press for bonding said spines to said bag material; and,

 servo-driven feed motors;

 wherein said servo-driven motors drive said feed spools; and,
10 wherein a first feeder spool feeds bag material, guided by said tension rollers and

 alignment spool, into said press and a second feeder spool feeds spine material into said press.

12. The machine according to claim 11, further comprising a heated press.

15 13. The machine according to claim 12, wherein said press is mounted to a hydraulic arm

 for proper stamping force (a hydraulic press).

14. The machine according to claim 13, wherein said press bonds said spines to said bag

 material using a heat-weld.

20 15. The machine according to claim 13, wherein said press is equipped with an integral

 glue applicator for adhesive bonding of the spines to the bag material.

5 16. The machine according to claim 12, further comprising a press with an integral
cutter; wherein said second feeder spool feeds a first unitary strip of spine material into said press
and a first feeder spool feeds a second unitary strip of spine material into said press perpendicular
to said first unitary strip; and wherein said cutter cuts said first and second unitary strips to form
said T-shapes.

10 17. The machine according to claim 16, further comprising a second feeder spool
integrated into an FFS machine for feeding said bag material with said bonded spines into said
FFS machine.

15 18. The machine according to claim 17, wherein said hydraulic press is electrically
connected to an existing programmable controller of said FFS machine for programmed
intermittent operation thereof.

20 19. A method for producing a recloseable bag, comprising the steps of
feeding bag material into a press;
feeding bendable shape-retaining flat spine material into said press; and,
bonding said spines material to said bag material.

5 20. A method for producing a recloseable bag, according to claim 19, wherein the step of feeding bendable shape-retaining flat spine material into said press; further comprising feeding two unitary strips of said flat spine material into said press, perpendicular to each other, and cutting each of said strips to form T-shaped spines.

10 21. A method for producing a recloseable bag according to claim 20, wherein said spine material is bonded to said bag material by heat welding or adhesive.